

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method ~~for~~in making ~~a~~of mechanical pulp, where the amount of organic dissolved and colloidal substances is reduced in the pulp making process water by treating a part of the process water, ~~characterised in that~~ wherein the

~~treatment~~treating comprises at least the following steps:

~~\_\_\_\_\_ separating a process water filtrate separated from the pulp to be made by a press located before bleaching, is led~~ \_\_\_\_\_ leading the filtrate to a pre-treatment, where elongated fibres are fractionated from the filtrate; process water to be treated;

~~\_\_\_\_\_ leading the filtrate that has passed the pre-treatment is led to membrane filtration, where at least part of the organic dissolved and colloidal substances included in the filtrate process water are separated from the rest of the filtrate as a membrane filtration concentrate, and the process water is separated as a permeate; process water, and~~

~~\_\_\_\_\_ leading the membrane filtration concentrate, i.e. comprising the colloidal and dissolved substances separated from the filtrate process water, are led to further treatment; and~~

~~\_\_\_\_\_ leading the permeate i.e. comprising the process water that has passed the membrane filtration is led back to the pulp making process.~~

2. (Currently Amended) A method according to Claim 1, ~~characterised in that wherein the fractionated elongated fibres's fraction separated in from the filtrate during~~in the pre-treatment ~~are~~is led back to the pulp making process.

3. (Currently Amended) A method according to Claim 1, ~~characterised in that~~ wherein the membrane filtration is carried out by using membranes whose retention capacity is 200 - 150,000 g/mol.

4. (Currently Amended) A method according to Claim 3, ~~characterised in that~~ wherein the membrane filtration is carried out by using membranes whose retention capacity is approximately 20,000 - 150,000 g/mol.

5. (Currently Amended) ~~An arrangement~~ A method according to Claim 1, ~~characterised in that~~ wherein the membrane filtration concentrate is disposed of by burning.

6. (Currently Amended) An arrangement ~~in~~ for making ~~of a~~ mechanical pulp to reduce the amount of organic dissolved and colloidal substances in the pulp making process water by treating a part of the process water ~~characterised in that~~ wherein the arrangement comprises at least:

\_\_\_\_\_ a means for leading the process water filtrate, separated from the pulp being made with a press located before bleaching, to a pre-treatment ~~means,~~ means;

\_\_\_\_\_ a pre-treatment means for fractioning the elongated fibres from the filtrate ~~process water being treated,~~ treated;

\_\_\_\_\_ a means for leading the filtrate, which has passed the pre-treatment means, to a the membrane filtration means, wherein the membrane filtration means ~~for separating~~ separates at least part of the organic dissolved and colloidal substances included in the filtrate ~~process water~~ from the rest of the ~~process water~~ filtrate as a membrane filtration concentrate, and the process water is separated as a permeate; and

\_\_\_\_\_ a means for leading the membrane filtration concentrate ~~i.e. comprising the~~ colloidal and dissolved substances separated from the ~~process water~~ filtrate to further ~~treatment, treatment;~~ and

\_\_\_\_\_ a means for leading the permeate ~~i.e. comprising the~~ process water that has passed through the membrane filtration back to the pulp making process.

7. (Currently Amended) An arrangement according to Claim 6, ~~characterised in~~ that wherein the pre-treatment means comprises one or more pressure screens.

8. (Currently Amended) An arrangement according to Claim 6, ~~characterised in~~ that wherein the membrane filtration means comprises at least one membrane filter.

9. (Currently Amended) An arrangement according to Claim 6, ~~characterised in~~ that wherein the membrane filtration means comprises several membrane filters arranged in series.

10. (Currently Amended) An arrangement according to Claim 9, ~~characterised in~~ that wherein the membrane filtration means comprises at least two membrane filter sets arranged in parallel.

11. (Currently Amended) An arrangement according to Claim 8, ~~characterised in~~ that wherein the retention capacity of the membrane filter is 200 - 150,000 g/mol.

12. (Currently Amended) An arrangement according to Claim 11, ~~characterised in~~ that wherein the retention capacity of the membrane filter is 20,000 - 150,000 g/mol.

13. (Currently Amended) An arrangement according to Claim 6,~~characterised in that~~ wherein the arrangement comprises a means for mixing the membrane filtration concentrate into a supporting medium,~~for example, wood bark and/or saw dust.~~

14. (New) An arrangement according to Claim 13, wherein the supporting medium is at least one support medium selected from the group consisting of wood, bark and saw dust.